

CLAIMS

What is claimed is:

1. A piezo-electric speaker comprising:

a piezo-electric member for generating a vibration in accordance with an applied electric signal; and

a piezo-electric vibration plate adhered to said piezo-electric member for converting said vibration to sound, wherein thickness of said piezo-electric vibration plate is changed in accordance with the distance from the vibration center of said piezo-electric member.
2. The piezo-electric speaker according to claim 1, wherein the thickness of said piezo-electric vibration plate is decreased in proportion to the distance from the vibration center of said piezo-electric member.
3. The piezo-electric speaker according to claim 1, wherein the thickness of said piezo-electric vibration plate is uniform at a periphery of a portion connected to said piezo-electric member.
4. The piezo-electric speaker according to claim 1, wherein the thickness of said piezo-electric vibration plate is smaller at a periphery of a portion connected to said piezo-electric member than that of said portion connected to said piezo-electric member.

5. The piezo-electric speaker according to claim 1, wherein said piezo-electric vibration plate is divided into several arbitrary configurations and connected by said piezo-electric member.

6. A piezo-electric speaker comprising:

a piezo-electric member for generating a vibration in accordance with an applied electric signal; and

a piezo-electric vibration plate adhered to said piezo-electric member for converting said vibration to sound, wherein said piezo-electric vibration plate is divided into several arbitrary configurations and the thickness of each of said piezo-electric vibration plates is different from each other.

7. The piezo-electric speaker according to claim 6, wherein an elastic member is adhered to a surface of each of said piezo-electric vibration plates on an opposite side of said piezo-electric member to provide a uniform thickness of each of said piezo-electric vibration plates.